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A Selected Bibliography on the Waters
of the Upper Nile

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GEOGRAPHIC INTELLIGENCE REPORT

**A Selected Bibliography on the Waters of
the Upper Nile**

CIA/RR-GS-15

5 February 1957

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A Selected Bibliography on the Waters of
the Upper Nile

This bibliography presents 33 items listed under the following headings:

Major Works
Supplementary Works
Egyptian-Sudanese Conflict
The Egyptian View
The Sudanese View
Maps

Items marked by asterisk have been copied in whole or in part and
accompany this bibliography.

Major Works

1. Hurst, H.E. in collaboration with P. Phillips, S.P. Black and Y. M. Simaika, The Nile Basin, Vols. I - VIII, Cairo, various dates.

Vol. I. General Description of the Basin, Meteorology, Topography of the White Nile Basin, Government Press, Cairo, 1931, pp. 144.

Vol. II. Measured Discharges of the Nile and its Tributaries, Government Press, Cairo, 1932, pp. 661.

Supplement to Vol. II. Measured Discharges of the Nile and its Tributaries from 1928 to 1932, Government Press, Bulaq, Cairo, 1933, pp. 735.

Second Supplement to Vol. II. Measured Discharges of the Nile and its Tributaries in the Period 1933-1937, Schindler's Press, Cairo, 1940, pp. 362.

Vol. III. Ten-day Mean and Monthly Mean Gauge Readings of the Nile and its Tributaries, Government Press, Cairo, 1933, pp. 715.

Supplement to Vol. III. Ten-day Mean and Monthly Mean Gauge Readings of the Nile and its Tributaries up to 1932, Government Press, Bulaq, Cairo, 1935, pp. 567.

Second Supplement to Vol. III. Ten-day Mean and Monthly Mean Gauge Readings of the Nile and its Tributaries for the Years 1933-1937 and Normals for the Period 1912-1937, Schindler's Press, Cairo, 1939, pp. 291.

Third Supplement to Vol. III. Ten-day Mean and Monthly Mean Gauge Readings of the Nile and its Tributaries for the Years 1938-1942 and Normals for the period 1912-1942, Whitehead Morris Press, Cairo, 1946, pp. 389.

Vol. IV. Ten-Day Mean and Monthly Mean Discharges of the Nile and its Tributaries, Government Press, Cairo, 1933, pp. 291.

Supplement to Vol. IV. Ten-Day Mean and Monthly Mean Discharges of the Nile for the years 1928-1932 and Normals for the period 1912-1932, Government Press, Cairo, 1933, pp. 259.

Second Supplement to Vol. IV. Ten-Day Mean and Monthly Mean Discharges of the Nile and its Tributaries for the years 1933-1937 and Normals for the period 1912-1937, Schindler's Press, Cairo, 1939, pp. 249.

Third Supplement to Vol. IV. Ten-day Mean and Monthly Mean Discharges of the Nile and its Tributaries for the years 1938-1942 and Normals for the period 1912-1942, Whitehead Morris Press, Cairo, 1945, pp. 297.

Vol. V. The Hydrology of the Lake Plateau and Bahr El Jebel, Schindler's Press, Cairo, 1938, pp. 251.

Vol. VI. Monthly and Annual Rainfall Totals and Number of Rainy Days at Stations in and near the Nile Basin for the period ending 1937, Schindler's Press, Cairo, 1943, pp. 613.

Vol. VII. The Future Conservation Of The Nile, S.O.P. Press, Cairo, 1946, pp. 178.

Vol. VIII. The Hydrology of the Sobat and White Nile, and the Topography of the Blue Nile and the Atbara, Government Press, Cairo, 1950, pp. 141.

A monumental work. The standard reference series on the Nile basin. Volumes I, V, VII, and VIII are textual; volumes (with supplements) II, III, IV, and VI are statistical.

2. Nile Projects Commission. Report, The Whitefriars Press, Ltd., London and Tonbridge, 1920, pp. 126.

The Report consists of 4 chapters, an appendix, and a separate table of discharges. Of particular interest is the "Future allocation of waters" issue contained in chapter IV; the Commission was not unanimous and in Section One the President of the Commission, F. St. J. Gibbie and his colleague Dr. G. C. Simpson present their views; in Section Two, Mr. Cory, an American engineer, presents his dissent.

3. Hurst, H. E., The Lake Plateau Basin of the Nile, Egypt, Ministry of Public Works, Physical Department, Government Press, Cairo.

Vol. I, Physical Department Paper No. 21, 1925, pp. 75, maps, diagrams, pictures. Based on investigations conducted in 1924 to acquire general information on the physiography of the Upper Nile Basin with special attention to hydrography and climatology. Presents detailed information on terrain, water regime, vegetation, and animal life.

Vol. II, Physical Department Paper No. 23, 63 pp. pictures, map. 1927. Continuation of study presented in Vol I giving similar data for Kagera River and rivers flowing into the south end of Lake Edward. Contains bibliography of publications of the Egyptian government dating from 1905 to 1927.

4. Hurst, H. E., The Nile, London, Whitefriars Press Ltd., 1952, pp. 322.

A description for the layman of the water bodies that make up the Nile system with remarks on a variety of related subjects. Brief and recent coverage of the textual volumes written in collaboration with Phillips, Black and Simaika (Ref. #1). Last third of the book concentrates on hydrology. Easy reading. Highly recommended by Derwent Whittlesey, late American authority on Africa..

5. Jonglei Investigation Team (Howell, P. P., Chairman), The Equatorial Nile Project And Its Effects In The Anglo-Egyptian Sudan, WaterFlow and Sons Ltd., 1954.

Introduction and Summary, pp. lxix.

Contains concise summary of conclusions on last three pages.

Index, pp. 54.

Vol. I. A Survey Of The Area Affected, pp. 397.

Excellent detailed discussion of topography, climate, hydrology, domestic

and stock water supplies, irrigation, drainage, communication, ecology (including soils and vegetation), inhabitants, animal husbandry, crop husbandry, and fisheries.

Vol. II. The Equatorial Nile Project: Its Effects And The Remedies,

pp. 417.

Discusses project and its effect on hydrology, pasture and animal husbandry, fish and fisheries, topography and climate, crop production, and communications. Advances pasture remedy measures, discusses agricultural alternatives and engineering aspects of remedial measures, including cost aspects.

Vol. III. Special Investigations And Experimental Data, pp. 258.

Discusses the environment of the Bahr El Jebel Flood Plain Between Juba and Bor; gives an unusually complete analysis of the White Nile Flood between Malakal and Renk, and an analysis of the Sobat Flood. Detailed discussion of the hydrology of the Machar Marshes. Good description of agricultural experiments in selected areas and a section on grassland experiments.

Vol. IV Maps and Diagrams.

Contains 249 maps and graphs, most of them larger than page size. Reflects the British emphasis on statistical and mapping detail.

6. Hurst, H.E. and Black, R.P., Report on Hydrological Investigations on How the Maximum Volume of the Nile Water May Be Made Available for Development in Egypt and the Sudan, Misr Press, Cairo 1955, pp. 28.

A short presentation of the problem with pertinent statistics. Conclusions clearly stated in general terms.

7. United Nations Economic and Social Council, Aspects of Water Development in Africa, June 1956. pp. 108.

Chapter 3, entitled Egypt, The Sudan and the Nile System, pages 49-82, is a medium-length account of irrigation practices, problems, and future development. Cites 41 sources of information, many of them articles in professional journals, that are not listed in this bibliography.

Supplementary Works

8. Simaika, Y.M., The Control of the Nile by Century Storage Reservoirs, World Engineering Conference, 2nd Internat'l Technical Congress, Cairo, 1949, 11 pp and 2 maps.

Discussion of proposed projects plus table of annual total discharge of L. Albert at exit, with departures from the mean, 1904-1944.

9. Wright, J.W., The White Nile Flood Plain and the Effect of Proposed Control Schemes, Geographical Journal, Vol. LXIV, Nos. 4-6, December 1949, p. 173-190. Map, tables.

Discusses results of investigation made in inundated areas of the White Nile during flood. Deals largely with predicted and observed flood-plain areas.

10. Great Britain, Central Office of Information, Nile Waters Development, London 1952, pp. 7, Map.

Gives summary of work done on Nile for past 100 years. Brief discussion of major works. Summarizes research on Nile and indicates new projects as of 1952.

11. State, Cairo. Dsp 2014, 1 April 1952, Notes on the Gezira Scheme in the Sudan. pp. 5.

Brief description of: areas cultivated, practices, and crops, by the Cairo Geographical Attache.

12. Department of the Interior, Bureau of Reclamation. Reconnaissance Report of the Blue Nile River Basin Within Ethiopia (by T.A. Clark and W.H. Greenhalgh), Washington, August 1952, pp. 28.

Potential development of the Blue Nile basin. Includes brief description of climate (with statistics) and monthly discharge figures of the Blue Nile at its exit from Lake Tana for the period 1920-1932.

13. Uganda Electricity Board. Owen Falls, Opening by Her Majesty The

Queen, 29th April 1954. pp. 40.

A semi-popular account giving history of the development of the Falls, technical aspects (including diagrams), economics and financing. Excellent pictures.

14. State, Khartoum. Dsp 209, 9 May 1955, Potential Irrigation

Development in the Sudan. pp. 3.

Concise statement, with figures, of Sudan government plans for irrigation development over the next quarter century. Source: H.A. Morrice, Irrigation Advisor to the Sudan government.

15. State, Addis Adaba, Dsp 325, 24 May 55, Notes on the Proper Utili-

zation of Waters of the Blue Nile.

Notes by Italian engineer employed by Ethiopian Power company that give convenient summary of proposed utilization of Blue Nile waters.

16. State, Khartoum. Dsp. 9, 22 July 1955. The Proposed Roseires Dam

on the Blue Nile. pp. 5.

The full report on the Roseires Dam Project by Alexander Gibb and Partners, Consulting Engineers to the Sudan Government, is here briefed by H.A.W. Morrice, Irrigation Adviser.

17. International Bank for Reconstruction and Development, Egypt-Sudd

El-Auli (High Dam) Project, R-933, 16 December 1955.

Appendix A, six pages long, is a technical description including cost figures and a statement of points on which Egypt and the Sudan would have to agree before the dam could be built.

18. Uganda Protectorate, Annual Report of the Department of Hydrological

Survey for the Year Ended 31 December 1955. pp. 101, Map.

Briefly discusses research completed, in progress, and planned. Detailed tables of discharge rates.

19. State, Cairo, Dsp 2166, 12 Mar 1956, pp. 3. Two Views of Nile

Water Storage and Egypt's Irrigable Area.

Warning by H.E. Hurst, Consultant to Ministry of Agriculture, that there is not as much water available to Egypt as the Ministry indicates.

20. Agriculture, Cairo. Report #91, 7 April 1956, Sudan-Agricultural

Extension Plans. pp. 8.

Description of the four projects planned for the Sudan and their dates of completion, the Jonglei scheme, and the expansion of pump schemes.

21. State, Khartoum. Dsp 141, 4 December 1956, Plan For the Nile Valley.

pp. 35.

A study of over-all Nile water potential by A.W. Morriss, Irrigation Advisor to the Sudan Government, published in May 1956. Details of author's adaptation of data for IBM computation with brief general discussion of physical factors.

Egyptian-Sudanese Conflict

22. State, Khartoum, Day 60, 14 Oct 54. Nile Waters Deadlock. pp. 2.

Discussion of failure of Egyptians to agree to Roseires Dam and Sudanese failure to agree on High Aswan Dam.

23. State, Cairo, Day 2180, 24 May 55. Division of Nile Waters. pp. 3.

Points out that figures given by Hurst and Black do not agree with those issued by Egyptian officials or Sudanese officials for flow and use of Nile waters.

*24. State, Khartoum, Day 230, 7 June 1955. Division of Nile Waters.

pp. 4.

One of the best short resumes of the situation in quantitative terms with pertinent unsolved questions. Presents Egyptian and Sudanese claims and Embassy thinking as of mid 1955.

25. CIA Office of Current Intelligence, The Nile Water Conflict Between Egypt and the Sudan in Current Intelligence Weekly Summary, 31 January 1957, pages III 6 to III 11.

Brief statement of Egyptian and Sudanese positions and proposed schemes. Maps and schematic diagram.

The Egyptian View

26. State, Cairo, Dsp 1939, 11 April 1955, Egyptian-Sudanese Division of Nile Waters. pp. 4.

Points of difference between Egypt and the Sudan on allocation of Nile waters according to Mohamed Selim, a leading Egyptian authority on irrigation.

27. State, Cairo, Dsp 86, 18 July 55, The Sudan in Egyptian-American Relations. pp. 3.

Comments on Egyptian fears of political isolation and loss of Nile waters. Author mentions payments to individuals in the Sudan in order to protect Egypt's interests there.

28. State, Cairo, Dsp 136, 1 Aug 55, Egyptian Attitude Toward Nile Waters. pp. 2.

Comments on Egyptian feeling that Sudan will give in on question of division of Nile waters and on Egyptian insistence that Sudan accept the High Dam before Egypt will accept the Roseires Dam.

29. Selim, M. and Zaky, H. High Aswan Dam, presented at the Fifth Congress of High Dams, Paris, 1955. pp. 15.

Discharge diagrams and discussion of engineering and economic aspects of the proposed High Dam.

The Sudanese View

#30. State, Khartoum, Dep 211, 10 May 1955, Sudan Thinking on Main Nile Development. pp. 19.

Despatch is a paper by the Sudan's irrigation advisor, H. A. Morrice, dealing principally with the problem of water storage but also with irrigation, power, flood protection and navigation. The disputed distribution of waters is not treated.

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Maps

32. Irrigable Areas From The Nile In The Sudan; 1:2,000,000; Sudan Survey Department, August 1955.
33. Pump Irrigation On The Blue And White Niles; 1:2,000,000; Sudan Ministry Of Irrigation And Hydroelectric Power. 1955.
34. Sudan Population; 1:3,250,000, E. G. Howell, 1951.
35. Manaqil Extension [proposed addition to Gezira Scheme]; in two sheets; 1:250,000; Sudan Survey Department Overprint, 1956.

Note: For additional maps see Jungle Investigation Team, The Equatorial Nile Project and Its Effects in the Anglo-Egyptian Sudan, Vol. IV, Maps and Diagrams; listed in this bibliography as item 5.